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PATENT ABSTRACTS OF JAPAN

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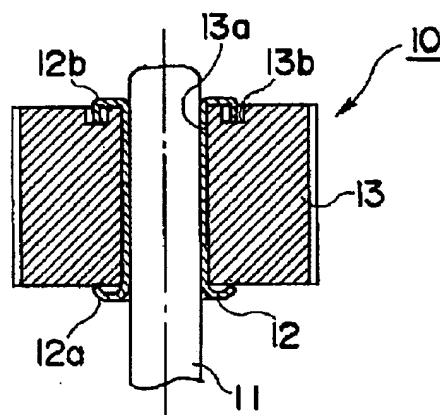
(54) GEAR HOLDING STRUCTURE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a gear holding structure for enhancing holding power to a shaft even in a resin gear.

SOLUTION: In a gear holding structure 10 including a metallic shaft 11 and a resin gear 13 fixed to and held by this shaft, the gear holding structure 10 is constituted so that a metallic eyelet 12 is inserted into a central hole 13a of the gear from one side 12a to be calked by the other side 12b, and the shaft is pressed in this eyelet.

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Resin made gearwheel holding structure for drive shaft of motor, has center eyelet whose squeeze side is inserted in hole of gearwheel and drive shaft is press-fitted with crimp side of eyelet

Patent Assignee: MITSUMI ELECTRIC CO LTD (DENA)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 2001124181	A	20010508	JP 99306643	A	19991028	200142 B
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Priority Applications (No Type Date): JP 99306643 A 19991028

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 2001124181	A		4	F16H-055/17	
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Abstract (Basic): JP 2001124181 A

NOVELTY - Squeeze side (12a) of eyelet (12) is inserted in hole (13a) of gearwheel (13). A drive shaft (11) is press-fitted to crimp side (12b) of eyelet.

USE - In drive shafts of motor.

ADVANTAGE - Holding force of shaft is improved, sharply by the eyelet used and also enables easy press-fit of shaft to eyelet due to the crimp provided to eyelet. Excellent effect of gearwheel holding is obtained by improved and reliable holding force of eyelet.

DESCRIPTION OF DRAWING(S) - The figure shows the cross-sectional view of gearwheel holding structure.

Drive shaft (11)

Eyelet (12)

Squeeze side (12a)

Crimp side (12b)

Gearwheel (13)

Hole (13a)

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Title Terms: RESIN; MADE; GEAR; HOLD; STRUCTURE; DRIVE; SHAFT; MOTOR; EYELET; SQUEEZE; SIDE; INSERT; HOLE; GEAR; DRIVE; SHAFT; PRESS; FIT; CRIMP; SIDE; EYELET

Derwent Class: P56; Q63; Q64

International Patent Class (Main): F16H-055/17

International Patent Class (Additional): B23P-021/00; F16D-001/06

File Segment: EngPI

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